CLAIMS

This listing of claims replaces all prior versions.

Claims 1-29. (Canceled)

- 30. (Currently amended) A method of identifying endogenous mRNA subsets in a cell, comprising the steps of:
 - (a) lysing a cell comprising an mRNA-protein (mRNP) complex to produce a lysate;
 - (b) contacting the lysate with an antibody that specifically binds at least one component of the mRNP complex;
 - (c) partitioning the mRNP complex by capturing the antibody on a solid support;
 - (d) removing the captured mRNP complex from the lysate; and
 - (e) identifying a plurality of mRNAs from the mRNP complex without amplifying the mRNAs by PCR, wherein the identified mRNAs are encoded by a plurality of genes.
- 31. (Previously presented) The method of claim 30, wherein the plurality of mRNAs are reverse transcribed prior to their identification.
- 32. (Previously presented) The method of claim 30, wherein the plurality of mRNAs are identified by hybridization to known nucleic acid sequences.
- 33. (Previously presented) The method of claim 30, wherein the plurality of mRNAs are identified by sequencing each mRNA.
- 34. (Previously presented) The method of claim 32, wherein the plurality of mRNAs are identified using a microarray.
- 35. (Previously presented) The method of claim 34, wherein the microarray is a cDNA array.
- 36. (Previously presented) The method of claim 30, wherein the method does not include iterative selection prior to the identification of the mRNAs.
- 37. (Currently amended) The method of claim 30, wherein the component of the <u>captured</u> mRNP complex to which the antibody binds is an endogenous RNA-binding protein.
- 38. (Currently amended) The method of claim 37, wherein the endogenous RNA-binding protein is polyA-binding protein (PABP).

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- 39. (Canceled)
- The method of claim 30, further comprising identifying changes 40. (Currently amended) in the endogenous mRNA subsets following treatment of the cell with a drug to identify changes in the mRNA subsets.
- The method of claim 30, further comprising identifying changes 41. (Currently amended) in the endogenous mRNA subsets during cell cycle, developmental events, or a state of ageing aging to identify changes in the mRNA subsets.
- The method of claim 30, wherein the cell is a tumor cell. 42. (Previously presented)
- The method of claim 30, wherein the cell is an animal or plant 43. (Previously presented) cell.
- The method of claim 30, wherein the cell is infected with a 44. (Previously presented) pathogen.
- The method of claim 30, wherein the RNA-binding protein is 45. (Previously presented) tissue-specific.
- The method of claim 30, wherein the plurality of mRNAs are 46. (Previously presented) identified en masse.
- The method of claim 30, wherein the plurality of mRNAs 47. (Previously presented) comprises approximately 10% of total mRNAs.
- A method of identifying endogenous mRNA subsets in a cell, 48. (Currently amended) comprising the steps of:
 - (a) expressing an epitope-tagged RNA-binding protein or an epitope-tagged RNAassociated protein (RAP) ectopically expressed in a cell, thereby forming an mRNP complex;
 - (b) lysing the cell;
 - (c) partitioning the mRNP complex by capturing the RNA binding protein or the RAP on a solid support;
 - (d) removing the captured mRNP complex from the lysate; and
 - (e) identifying a plurality of mRNAs from the mRNP complex without amplifying the mRNAs by PCR, wherein the identified mRNAs are encoded by a plurality of genes.

- 49. (Previously presented) The method of claim 48, wherein the plurality of mRNAs are reverse transcribed prior to their identification.
- 50. (Previously presented) The method of claim 48, wherein the plurality of mRNAs are identified by hybridization to known nucleic acid sequences.
- 51. (Previously presented) The method of claim 48, wherein the plurality of mRNAs are identified by sequencing each mRNA.
- 52. (Previously presented) The method of claim 50, wherein the plurality of mRNAs are identified using a microarray.
- 53. (Previously presented) The method of claim 52, wherein the microarray is a cDNA array.
- 54. (Previously presented) The method of claim 48, wherein the method does not include iterative selection prior to the identification of the mRNAs.
- 55. (Currently amended) The method of claim 48, wherein the epitope-tagged RNA-binding protein [[is]] comprises ELAV/Hu protein.
- 56. (Currently amended) The method of claim 55, wherein the epitope-tagged RNA-binding protein [[is]] comprises HuA or HuB.
- 57. (Previously presented) The method of claim 48, wherein the epitope tag is a bacteriophage gene-10 tag.
- 58. (Previously presented) The method of claim 48, wherein the mRNP complex is contacted with the epitope-tagged RNA-binding protein.
- 59. (Currently amended) The method of claim 48, further comprising identifying ehanges in the endogenous <u>mRNA</u> subsets following treatment of the cell with a drug <u>to identify</u> changes in the mRNA subsets.
- 60. (Currently amended) The method of claim 48, further comprising identifying changes in the endogenous \underline{m} RNA subsets during cell cycle, developmental events, or a state of ageing aging to identify changes in the mRNA subsets.
- 61. (Previously presented) The method of claim 48, wherein the cell is a tumor cell.
- 62. (Previously presented) The method of claim 48, wherein the cell is an animal or plant cell.

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63. (Previously presented)	The method of claim 48, wherein the cell is infected with a
pathogen.	

- 64. (Previously presented) The method of claim 48, wherein the RNA-binding protein or the RAP is tissue-specific.
- 65. (Previously presented) The method of claim 48, wherein the plurality of mRNAs are identified *en masse*.
- 66. (Previously presented) The method of claim 48, wherein the plurality of mRNAs comprises approximately 10% of total mRNAs.